



BADGER STATE Smoke Signals

For Radio Amateurs • By Radio Amateurs



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Kenneth A. Ebnetter
822 Wauona Trail
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Vol. 19 No. 9 - 225th Consecutive Monthly Issue - Baraboo, Wisconsin - September, 1988

FCC Acts on 87-14

220-222 MHz Given to Land Mobile

Your Help is Needed

State Amateur Wins 1987 Maxim Award



Stacey L. Garner, KA9WDE

Stacey L. Garner, KA9WDE, daughter of Greg (KA9VII) and Patty Garner of Harshaw, Wisconsin, was named winner of the 1987 Hiram Percy Maxim Award by the Board of Directors at their recently-held second meeting of 1988.

The HPM Award recognizes young peoples' contributions to Amateur Radio in several areas of endeavor. More information is on page 8 of this issue.

Photo by Kevin McCullough,
The Lakeland Times

In the face of overwhelming public opposition, the Federal Communications Commission on August 4 adopted its own proposal to reallocate the 220-222 MHz frequency band from the Amateur Service to private land mobile use.

The reallocation, proposed by FCC 18 months ago to address what it said were critical land mobile needs and a desire to promote spectrum-efficient technology, attracted strong criticism from the nation's 435,000 radio amateurs and the many public safety and disaster relief organizations who rely on amateurs in communications emergencies. The thoughtful protests of many thousands of citizens became a part of the proceeding. Dozens of Congressmen expressed their own opposition to the Commission, as did the Department of Defense, on its own behalf and that of the National Communications System.

Yet, it was not until United Parcel Service filed comments, six months late, that a significant user of the proposed new land mobile band went on record as desiring the reallocation. Despite this clear testimony that the original proposal was not in the public interest, the Commission's action appears to be identical to its first proposal, without reflecting any additional understanding of Amateur Service needs. In its presentation of the item for Commission consideration, the staff of

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WNA Picnic • Sept. 10 • See Page 12

BADGER STATE Smoke Signals

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Officers and Staff:

CHAIRMAN
Kenneth A. Ebner, K9EN
822 Wauona Trail
Portage, Wisconsin 53901
(608) 742-3560

EDITOR
Jim Romelfanger, K9ZZ
412 1/2 Ash Street
Baraboo, Wisconsin 53913
(608) 356-4249

TREASURER
Jim Decker, WB9UQT
P.O. Box 337
Baraboo, Wisconsin 53913

ADVERTISING MANAGER
Harry Westlund, K9EHJ
720 Jefferson Street
Baraboo, Wisconsin 53913
(608) 356-6836

SUBSCRIPTIONS

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EDITORIAL MATERIAL, PHOTOGRAPHS, FEATURE ARTICLES, AND EXCHANGE PAPERS should be sent to Jim Romelfanger, address above.

DISPLAY ADS OR INQUIRIES REGARDING DISPLAY ADS should be directed to Harry Westlund, address above.

SUBSCRIPTIONS should be sent, with check or money order (do not send cash), to Jim Decker, address above.

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Swapfests and other Social Events

SATURDAY, SEPTEMBER 10, 1988. The 1988 WNA Picnic at North Wood County Park near Wisconsin Rapids. Don't miss this great annual outing. Open to non-members as well as net members. Bring your cook-out supplies as there is no food service at the park. See the map and directions on page 12 of this issue of BSSS.

SATURDAY, SEPTEMBER 10, 1988. The 36th annual W9DXCC Convention at the Holiday Inn in Glen Ellyn, IL, sponsored by the Northern Illinois DX Association. This is "world class" DX convention and the only major DX convention held in the mid-west. For more information, contact: Howie Huntington, K9KM, 65 So. Burr Oak Drive, Lake Zurich, IL. 60047.

SUNDAY, SEPTEMBER 11, 1988. The second annual FALL FEST sponsored by the Tri-County ARC, will be held in the parking lot of the Blackhawk Technical Institute, between Beloit and Janesville, on highway 51. Buy, Sell, Swap, \$2.00 per person. Bring your own table, this is an outdoor event. See ad on page 7 of this issue of BSSS.

SATURDAY & SUNDAY, SEPTEMBER 24th & 25th. RADIO EXPO, sponsored by the Chicago FM Club, will be held at the Lake County IL, Fairgrounds, Rts. 45 & 120, Grayslake, IL. Flea market 6am to 6pm, exhibits 9am to 4pm. Advance tickets: \$4.00, at the gate: \$5.00. Table reservations: \$7.50 per day. Contact CFMC, P.O. Box 1532, Evanston, IL 60204. See the ad on page 9 of this issue of BSSS.

SUNDAY, OCTOBER 2, 1988. ROCKFORD HAMFEST at the National Guard Armory, 605 North Main St., Rockford, IL. The ARRL Illinois State Convention. Amateur Radio Exams, ARRL Forum & much more. For details, see the ad on page 5 of this issue of BSSS.

SUNDAY, OCTOBER 30, 1988. LATE FALL HAMFEST. At the Lake County IL, Fairgrounds, Rts. 45 & 120, Grayslake, IL. Admission \$3.00, tables \$5.00. First come first served. Contact CAP, 637 Emerald St., Mundelein, IL 60060.

SATURDAY, NOVEMBER 12, 1988. 6.91 FRIENDLY FEST, sponsored by the Milwaukee Repeater Club. Held at Serb Hall, 51st and Oklahoma, Milwaukee, WI. Amateur radio exams given. (see Testpoint) Tables: \$3.00 advanced, \$4.00 at the door. Admission: \$2.00 advanced. \$3.00 at the door, contact The Milwaukee Repeater Club, P.O. Box 2123, Milwaukee, WI 53201.

Send information on your event to Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings

BADGER AMATEUR RADIO SOCIETY
(W9YT - UNIVERSITY OF WISCONSIN - MADISON)
Monthly while school in session - 2nd Wednesday - 7:30 p.m. - B-314, Electrical Engineering Building.

CENTRAL WISCONSIN RADIO AMATEURS, LTD.
(STEVENS POINT)
Second Wednesday.

EAU CLAIRE AMATEUR RADIO CLUB
2nd Tuesday - 7:30 p.m. - Parks and Recreation Bldg., Oxford and 1st Streets, Eau Claire. Hams, guests welcome. Travelers welcome on wide area club repeater K9UXP, 146.31/91.

FOUR LAKES AMATEUR RADIO CLUB (MADISON WI)
First and third Tuesdays - 7:30 p.m. - Red Cross Bldg., 4860 Sheboygan Ave.

FOX CITIES AMATEUR RADIO CLUB
Third Monday - 7:00 p.m. - Roosevelt Jr. High School, 318 E. Brewster St., Appleton. Info: (414) 735-6294. Winter Banquet, January 23, 1988. Contact KA9MPP.

GREEN BAY MIKE AND KEY CLUB
Second Thursday - Red Cross Bldg., corner Danz and Deckner, Green Bay.

GREEN FOX AMATEUR RADIO CLUB
Third Monday - 7:30 p.m. - Green Lake Town Hall, int. of county hwy. K and N.

KETTLE MORaine RADIO AMATEURS
Second Friday.

LAKESHORE RPTR. ASSN.
4th Tuesday, Jan., Apr., Jul., & Oct., 7:30 p.m. Red Cross Bldg., 4521 Taylor Ave., Racine, WI.

MANITOWOC COUNTY RADIO AMATEURS
First Wednesday - 7:00 p.m. - City Hall, 817 Franklin St., Manitowoc.
Second Wednesday - Red Cross Building, 1816 Washington St., Manitowoc.

MENOMONEE FALLS AMATEUR RADIO CLUB
Last Tuesday - Doors open 7:30 p.m., meeting begins 8:00 p.m. - Security Savings and Loan, Menomonee Falls. Amateurs and guests welcome.

MILWAUKEE RADIO AMATEURS CLUB
Fourth Thursday - Wauwatosa Savings and Loan, 7500 W. State St. (November on the third Thursday. No meetings in July, August and December.) Meetings begin at 7:00 pm.

OZAUKEE RADIO CLUB
Second Wednesday - 7:30 p.m. - Saukville Community Center.

QCWA - SOUTHEAST WISCONSIN CHAPTER #162
Meets third Monday monthly, 7:30 p.m., Around the Clock Restaurant, 3012 Rapids, Drive, Racine.

RACINE MEGACYCLE CLUB
Second Tuesday, 7:30 p.m., Red Cross Bldg., 4521 Taylor Ave., Racine, WI

RIVERLAND AMATEUR RADIO CLUB
First Tuesday - 7:30 p.m. - Onalaska Community Center, Onalaska WI.

ROCK RIVER RADIO CLUB
First Tuesday - 8:00 p.m. - Dodge County Sheriff's Dep't, 141 N. Main, Juneau WI.

SHEBOYGAN COUNTY AMATEUR RADIO CLUB
Second Tuesday - 7:00 p.m. - Sheboygan Red Cross/Boy Scout Bldg., 2032 Erie Ave.

SOUTH MILWAUKEE AMATEUR RADIO CLUB
First Wednesday - Legion Post 434, Shepard Ave., Oak Creek WI. Auctions in March and October.

TRI-COUNTY AMATEUR RADIO CLUB
Meetings are held at 7:00 p.m., the second Sunday of each month at the Trinity Lutheran Church, 314 Barrie, Fort Atkinson, WI.

WEST ALLIS RADIO AMATEURS CLUB
Second Tuesday - 8:00 p.m. - St. Francis Savings, 9330 W. Greenfield Ave.

WISCONSIN VALLEY RADIO ASSOCIATION (WAUSAU)
First Tuesday - 7:30 p.m. - Location varies; info on 146.04/64, Wausau.

YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)
Days rotate: 1988 meeting dates: Mon., Sep. 19, Tue., Oct. 11, Wed., Nov. 16, Thu., Dec. 15. Monday meetings in room 28D of the Baraboo Civic Center; all others in room 25. Meetings start 7:30 p.m.

The Test Point

The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area.

September 10, 1988	Appleton, WI
September 10, 1988	Bloomington, MN
September 17, 1988	Milwaukee, WI (BE)
September 17, 1988	Watertown, WI
September 17, 1988	St. Paul, MN
September 24, 1988	Wisconsin Rapids, WI
September 25, 1988	Tomahawk, WI
October 9, 1988	Bloomington, MN
October 15, 1988	Milwaukee, WI (BE)
October 15, 1988	Eau Claire, WI
October 15, 1988	Minneapolis, MN
October 30, 1988	Tomahawk, WI
November 12, 1988	Menomonee, WI
November 12, 1988	Rhineland, WI
November 12, 1988	Bloomington, MN
November 19, 1988	Milwaukee, WI (BE)
December 3, 1988	Stevens Point, WI
December 10, 1988	Appleton, WI
December 10, 1988	Bloomington, MN
December 17, 1988	Milwaukee, WI (BE)
December 17, 1988	St. Paul, MN
March 18, 1989	Menomonee, WI
June 17, 1989	Menomonee, WI
November 11, 1989	Menomonee, WI
Monthly, First Sat.	Racine, WI
Monthly, Third Sat.	Loves Park, IL

GENERAL RULES FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 25¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$4.55 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE METRO AREA TEST TEAM - MRAC/VEC (MRAC)

Tests are 7:00 p.m. at Wauwatosa Savings and Loan, 7500 West State St., lower level. Please arrive promptly so test can be completed by 10:00 p.m. Bring your original license and three good photocopies, a pen, and \$4.55 for the exam fee. Walk-ins accommodated if time permits. Register in advance on a Postal Service 15 cent post card; print the grade of license you are applying for,

and your name, address, and telephone number. Send the card to The Milwaukee Radio Amateurs' Club, Inc., N50 W16328 Pin Oak Ct., Menomonee Falls, WI 53051.

BADGER EXAMINERS (BE) - MILWAUKEE
September 17, October 15, November 19, & December 17

Unless otherwise noted, examinations are administered beginning at 1:00 p.m. at St. Nicholas Parish, 5353 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Number for coin telephone at exam location is 228-9994. Walk-ins are welcome. Bring your original license, a good photocopy of it, and a second form of identification. Technician license holders must bring proof of having been tested prior to March 21, 1987 to upgrade to General with code test only. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to be tested, your call sign, address and telephone number to Badger Examiners, Mickey Dolgin, KB9G, 507 E. Spooner Rd., Fox Point, WI 53217. (414) 351-5311.

FOX CITIES AMATEUR RADIO CLUB VOLUNTEER EXAMINERS

September 10 and December 10, 1988 - Roosevelt Junior High School, Appleton, Wis., 9:00 a.m. until noon. Walk-ins are always welcome. For more information, contact Larry Siebers, KD9IA, 7077 Weyers Rd., Freedom, Wis. 54131, or call (414) 788-3823.

WATERTOWN, WI
September 17, 1988
Contact: Mark A. Schultz, 200 N. 8th St., Watertown, WI 53094. (414) 261-3411

STEVENS POINT, Wisconsin
December 3, 1988
By Central Wisconsin Radio Amateurs, Ltd.
Contact Joseph W. Larson, N9JW, 644 Portage St., Stevens Point, WI 54481. (715) 344-1182.

WISCONSIN RAPIDS, WI - ARRL/VEC
September 24, 1988
Contact Eugene R. Santoski, K9UTQ, 1220 18th Street South, Wisconsin Rapids, WI 54494. (715) 423-6368.

EAU CLAIRE, WI - W5YI/VEC
9:00 A.M. to Noon. Exams are given at the University of Wisconsin Facilities Management Building in Eau Claire, except that the July exams are given in conjunction with the Eau Claire Amateur Radio Hamfest. There is no pre-registration requirement. Contact: Carl Searing, W9NW, 1129 McKinley Road, Eau Claire, WI 54703. (715) 834-1303.

MENOMONIE, WI
Credit Union Office Building, Conference Room, lower level, 444 S. Broadway, Menomonee, WI. Contact: Dr. Thomas W. King, KD9TT, c/o office, 444 S. Broadway, Suite 1, Menomonee, WI 54751. (715) 235-4747 (O), 235-5757 (H).

RHINELANDER, WISCONSIN
November 12, 1988.

All will be held at Nicolet College Science Center in the Fireside Room starting at 9:00 a.m. All sessions held at Nicolet College will be by appointment only. Registration required thirty days in advance of testing session, with check payable to "DeVry VEC" for \$4.55. Only

Technician class and above will be given at the testing sessions.

Novice tests will be given by appointment at any time except at regular scheduled testing sessions.

Contact: Leonard Bauman St., K9RMN, 1312 Dorothy St., Rhineland, WI 54501. (715) 369-3296.

RACINE, WISCONSIN - ARRL/VEC
First Saturday of each month except during summer and the Christmas holidays.

Exams are given at the Red Cross Building, 4521 Taylor Ave., Racine, WI. Walk-ins are permitted.

Send pre-registration to: William R. Firchol, Jr., N9DMP, 1912 27th Street, Kenosha WI 53140.

Third Saturday of every month.
Northern Illinois Volunteer Examiners (DeVry VEC). Held at North Suburban Library on North Second Street in Loves Park, IL. Contact: Gene Melton, AK9N, 2901 Billie Rd., Rockford, IL 61109, (815) 874-6867

MINNESOTA TESTS

September 10 - Bloomington
September 17 - St. Paul
October 9 - Bloomington
October 15 - Minneapolis
November 12 - Bloomington
December 10 - Bloomington
December 17 - St. Paul

To register for these tests, or for more information, contact as follows:

St. Cloud Amateur Radio Club
Len Carlson at (612) 252-0783
Amateur Radio Association of Bloomington
Art Putt at (612) 881-7181
St. Paul Radio Club, Inc.
Mary Ketzler at (612) 426-4438
Minneapolis Amateur Radio Club
Jeff Kolb at (612) 699-6961.
Minnesota test information courtesy of Marv Mahre, W0MGI.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules.

Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN or K9ZZ at the address shown on page 2.

YTARC BIRTHDAY

Jermy Wight	WB9NVI	September 10
John Hansel	WB9TIG	September 16
George Halper	W9SUF	September 16
Norman Gade	K9ELK	September 22
Gordon Grant	W9ULM	September 23

SENTENCE SERMON

If bad men cast their ballots, and the good refuse or neglect to vote, then are good men chargeable with the evils of bad government.

--A. Gellius

Wisconsin Nets Association Ltd.

WISCONSIN NETS

Net	WNA	Freq	UTC	CDT	Manager
BWN	Yes	3984	1100	0600	KC9CJ
BEN	Yes	3985	1700	1200	KA9RII
WSBN	Yes	3985	2230	1730	K9ANV
WNN	Yes	3723	2300	1800	KA9TTM
WSSN	Yes	3645	2330	1830	N9BDL
WIN/E	Yes	3662	0000	1900	WB9ICH
WIN/L	Yes	3662	0300	2200	W9NGP
NWTN	Yes	34/94	2330	1830	NS9Q
Gr. Bay	No	72/12	0145	2045	WB9NRK
			Thu.	Wed.	
RACES	No	3993.5	1715	1215	WC9AAG
		USB Tues and Thurs			
RACES	No	3993.5	1300	0800	WA9OAY
		LSB Sunday			

Section Manager's notes



Special congratulations to 14-year-old Stacy Garner, KA9WDE, of Harshaw, Wisconsin, for being selected as the winner of the ARRL Hiram Percy Maxim Award of \$1000 cash, plus travel and accomodation expenses to attend an ARRL Convention to formally receive the plaque.

Quarter Century Wireless Association, Wisconsin Chapter 55, meeting will be October 1st, with a lunch and auction at the Oakwood Inn, 1040 West Fulton Street (2 blocks east of Highway 10), Waupaca. Visitors welcome to join the QCWA fun.

October 2nd exams will be held in Racine at the Red Cross Building, more info from N9DMP.

October 15th at 1:00 p.m., Milwaukee area exams by Badger Examiners, 5353 North Green Bay Avenue, registration with WA9UJK.

Exams at the University of Wisconsin Facilities Management Building in Eau Claire October 15th at 9:00 a.m., check with W9NW.

Help your local Boy Scouts to learn about Ham Radio October 15th and 16th during their Jamboree on the Air.

Does anyone have info about Tomahawk exams on October 30th?

W9YCV worked Oscar's Special Event Station during Oscar 13's first day of operation and a few days later contacted Finland through the satellite.

New Official Observer K09Q, of Sheboygan.

New officers of Milwaukee RAC: Pres. KD9AJ; V. Pres. W9VQD; Sec. KE9JJ; Treas. NE9W.

Sorry to report Silent Keys W9UMD and WA9NMT.

Thanks to communicators who worked hard, under the direction of EC WB9SMM, to make the Milwaukee City of Festivals and Circus Parades successful.

From the Section Traffic Manager

TRAFFIC TOPIX
GENE SANTOSKI K9UTQ
SECTION TRAFFIC MGR

Boy, Summer sure went fast. I took my family on a 5 week vacation trip through the Southwest and took another week to take my scout troop to camp and all that took up about half the summer! That explains why you haven't heard much

of me on the nets this summer. I think that's the norm - people are on the go and spending most of their time in the great out of doors and away from their radios. But, as the fall months approach, we will witness increased activity on the bands and the traffic nets. I do hope that you all had a safe and fun summer as I did.

I would like to call your attention to the article "Public Service Opinion" in the public service column of the August QST - Page 90. Very worthwhile reading.

Another article worth reading is entitled "How to Improve Your Code Speed" by our own Ed Rice, W9NGP (Net Mgr of WIN/L). It is in the July issue of 73 Magazine - Page 21. Ed did a great job on this one - Congratulations Ed!

Also, I you aren't already aware of it, the League is looking for and NTS logo. As you know, ARES and Special Service Clubs have logos and it is the general opinion that NTS should also have one. So, they are soliciting designs from anyone with artistic abilities. The logo has to depict the true spirit of NTS: pride, service, tradition, and innovation!

Entries will be judged on how well it symbolizes the NTS spirit and aesthetics. The design must include some specific details: the ARRL diamond must be prominently features, the words "National Traffic System" must be incorporated, and the design must be legible when reduced and embroidered in a size of roughly 4-6 inches in diameter.

All original designs must be submitted on 8-1/2 x 11 in. white paper to Richard Palm, K1CE, Field Services Manager, ARRL HQ, 225 Main Street, Newington, CT 06111 by October 1, 1988. Don't forget to include your name, address, phone number and call sign with your submission. The winner will receive an engraved plaque, an ARRL Operating Manual and recognition in QST, Field Forum, and Section Leader. ENTER TODAY! It would be great to see someone from the Wisconsin Section win this one. Go for it!

Those of you who are Section Net Managers, be sure to check the Net Directory for accuracy of your nets listing. If there is a change needed, be sure to re-register your net using the net registration card (FSD-85, available for SASE from ARRL HQ), and return it by September 1. If no change is necessary do nothing. The new Net Directory should be available sometime in November. This is a publication that every active traffic handler should have by the rig as it not only contains net listings, but a wealth of other helpful information on traffic handling and net operation. They are available for \$1 from ARRL.

Another publication recently released by the League is the new "Special Events Communications Manual". This guide helps with the planning for public, non-disaster events such as marathons, parades, mall and fair displays. It is a 100 page book featuring practical tips, suggestions, and examples. It is available from ARRL for \$5 plus \$2.50 shipping/handling.

Since June of this year, all Station Activity Reports and PSNR reports are to go to me (K9UTQ). All Net Managers and Official Relay Stations are required to submit the SAR reports on a monthly basis to maintain those appointments. PLEASE get them to me as soon as possible because I have to have my report to the League in the mail on the 7th of the month following. Also, certain of you only send part of an SAR report. I would like the reports standardized in

the following format:

SAR FOR (MONTH) XRAY ORSDT 0 15 12 5 32 XRAY 73

This would make it much easier for me to tabulate. ORSDT stands for Originated, Received, Sent, Delivered and Total. If you have no activity in any of these categories just send 0. Please do not just send "SAR JUNE 2 XRAY 73" as one individual is doing. I cannot guess which category the 2 points are for. Your cooperation in this would be greatly appreciated.

If you read the minutes of the June 19th meeting of the Wisconsin Nets Association you are already aware of the fact that work is being done to incorporate Packet Radio into the traffic handing scheme. It is a slow process but with your help and patience it will become better and better as time goes on. It takes a lot of coordination between the various PBBS operators and various packet organizations such as our Wisconsin Amateur Packet Radio Association (WAPR) and various NTS officials to get things running as smoothly as possible. There are some problems that have to be worked out and I am sure they will be in time. Many thanks to Greg, KA9VII and Ray K9ANV for their time and efforts in presenting a report on this matter to the WNA. It is my job as your STM to establish formal lines of communication between WAPR and the NTS at Section level and to form a joint committee to develop a workable plan (under ARRL guidelines) for the handling of NTS messages via packet. Additional details will be published as they become available.

Last but by no means least, I want to remind you of the Annual Wisconsin Nets Association Picnic to be held this year on Saturday, September 10th at North Wood County Park which is located between Wisconsin Rapids and Marshfield. See details elsewhere in this issue of BSSS. I do hope to see you there - I guarantee you will have a great time! Those of you who are not delegates are encouraged to attend a short meeting at 1 PM at the picnic. We need your ideas!

That's it for this one. CU on the nets and at the picnic.

73 and good netting.

Universal Traffic Queries

SECTION TRAFFIC MGR
GENE SANTOSKI K9UTQ
1220 18TH STREET SO
WISCONSIN RAPIDS, WI 54494

Greetings once again. This month, we will continue our discussion on "handling" traffic which includes originating, delivering, servicing and relaying of messages.

JUST HOW DOES ONE "ORIGINATE" A MESSAGE?

Good question and perhaps one of the least understood topics in traffic handling.

When we talk about ORIGINATING messages, this does not refer to just any message that is sent for the first time from your station. It refers ONLY to those messages that originate with a member of the general public other than yourself. "Origination", in this sense, is therefore entirely an off-the-air function.

I will discuss counting of traffic in a future column but it should be mentioned that an
(continued on page 15)

FCC REALLOCATES 220-222 MHZ

(Continued from front page)

the FCC office of Engineering and Technology stated that the reallocation represented just 2% of the presently available amateur spectrum -- a figure that was echoed by Chairman Dennis Patrick.

"We're shocked and disappointed at the Commission's action," said ARRL President Larry Price, W4RA. "The 2% figure has no basis in fact. As we've pointed out throughout the proceeding, the 2 MHz the Commission is intent on taking away from the Amateur Service represents more than 15% of our international primary allocations between 30 and 24,000 MHz."

FCC tried to soften the blow by saying that the remaining 3 MHz would be available to amateurs on an exclusive basis, and by expressing its continued strong support for the Amateur Service. "It's nice that the Commissioners want to be seen as supporters of Amateur Radio, but actions speak louder than words," observed ARRL Executive Vice President David Sumner, K1ZZ. "The notion that existing amateur operations below 222 MHz can all be accommodated in the remaining 3 MHz is fanciful, and not supported by the public record. On the other hand, the spectrum efficiency narrowband mobile technology has been seriously challenged in engineering circles and may in fact be illusory. About all that can be said for the Commission's action is that it provides a fertile field for arguments in support of reconsideration or reversal."

"We've lost a battle, but not the war," ARRL President Price commented. "The League will continue to pursue every available administrative, judicial, and legislative remedy to ensure that radio amateurs will have access to the spectrum they need to serve the public."

(Please turn to page 6)

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ROCKFORD HAMFEST - 88

AMATEUR RADIO AND COMPUTER FAIR ARRL ILLINOIS STATE CONVENTION

SUNDAY - OCTOBER 2, 1988

9:00 AM - 4:00 PM

NATIONAL GUARD ARMORY

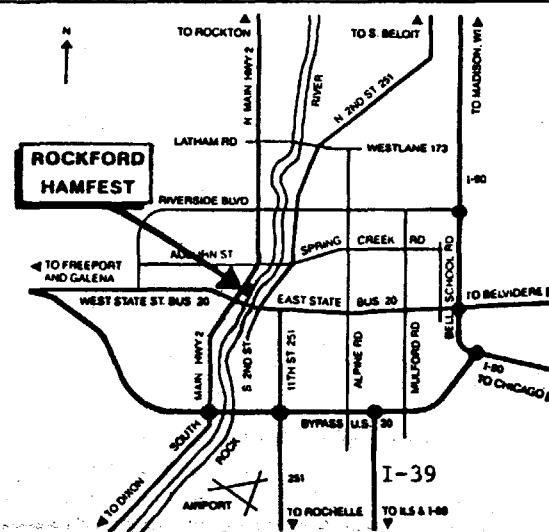
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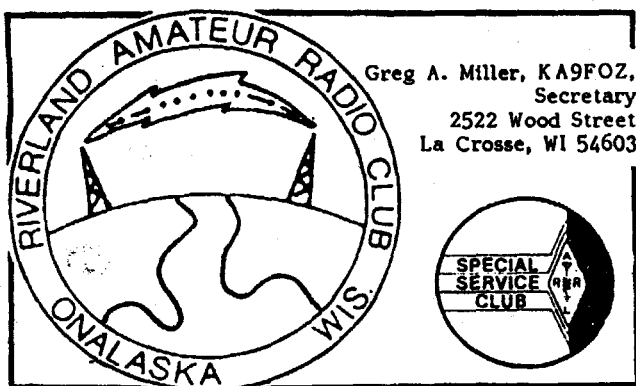
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Greg A. Miller, KA9FOZ,
Secretary
2522 Wood Street
La Crosse, WI 54603

The regular monthly meeting was to be held at the County Court House, with the business meeting between 7:30 p.m. and 8:00 p.m., and a tour of the 911 Emergency Center after that. Because of the low attendance, it was decided that a business meeting would be postponed until the regular meeting on September 6th at the Onalaska Community Center, start time 7:30 p.m.

Plan on attending the September meeting, as we will be finalizing plans for the September 17th Swapfest, to be held at the Onalaska Community Center, start time 8:00 a.m. Tables will be free, with a \$1.50 entry fee. See you there.

PRESIDENT'S GAVEL

I'm sorry to say that I wasn't able to be at the last meeting, but those of you who did miss it also lost an opportunity to see our county's 911 Emergency Dispatch Center close up. From what others have told me, it was an interesting experience. I would like to thank Kent Helman, W9LZQ, for setting up the tour for the club.

Since our club is accumulating a large amount of money for our new repeater, I

think we should start evaluating what features we want to incorporate into the system. I know that some of you are thinking, "What do we need any fancy features for anyway?" Well, look at it this way: How did you view repeaters when they first appeared on the scene? They were a new device to use, so everyone with the ability to use it did, am I right? Now, as you listen to the local repeaters, the use is down. Is it because there are fewer Hams? I think not, but that the machines aren't as they were when they were new, meaning they do nothing special for the user. Don't get me wrong; I'm not saying that we have to spend Megabucks on a controller, but there are things that can be done to make it interesting and fun for you, the user. That's not to mention getting the autopatch capability back into WI so we can use the emergency capabilities to the fullest. This is a big investment for the club; one that everybody has a stake in, so why shouldn't it be the not necessarily state of the art repeater, but updated to the 1980's (soon to be the 90's) style repeater?

Some other things to keep in mind:

The upcoming Swapfest at the Onalaska Community Center.

Watch November QST for Field Day results. We have tabulated our score, which figured out to be 7006 points, if we receive all the bonus points claimed. That should put us in the top 15 in the 3A Class, compared to last year's results. That's not too bad, guys.... With a little more streamlining, who knows what may happen next year.... #1? You never know until it's over.

73 'til next month
Craig

FCC REALLOCATES 220-222 MHZ - Continued from page 5

A Memorandum to all Radio Amateurs

FROM: DAVID SUMNER, K1ZZ
ARRL Executive Vice President
SUBJECT: Reversing the FCC decision to reallocate 220-222 MHz to the land mobile service

There's only a few weeks left to reverse the FCC's onerous decision by legislative means in the 100th Congress. Among other initiatives, we believe that sending letters, QSL cards, and calling the offices of key senators and congressmen will enhance our efforts on Capitol Hill. Please assist us in retaining this spectrum for amateur use by picking up your pen or phone today.

A proposed amendment to pending legislation follows. Please read it, then voice your support for Amateur Radio to the key decisionmakers listed at the end of this memo.

Radio Spectrum Allocation

Sec. The Commission shall enforce

the regulations, rules and policies in effect as of August 3, 1988, as they relate to the Amateur Radio Service in the 220-225 MHz frequency band as defined in 47 CFR Section 2.106 (Table of Frequency Allocations).

U.S. HOUSE

Rep. John D. Dingell (D-MI)
Room 2221 RHOB
Washington, D.C. 20515
Tel: (202) 225-4071
Attn: John Orlando

Rep. Edward J. Markey (D-MA)
Chairman of Telecommunications and Finance Subcommittee
Room 316 House Annex II
Washington, D.C. 20515
Tel: (202) 226-2424
Attn: Gerry Salemme

U.S. SENATE

Sen. Ernest F. Hollings (D-SC)
Chairman Commerce, Science and Transportation



HERE and THERE

OUR SINCERE CONDOLENCES to Ken Ebnetter, K9EN, on the death of his brother Jimmy on July 30, 1988. Our sympathy also to his mother, Iona Neimeyer, dad Ernie Ebnetter, and Ken's sisters Carol, Judy and Peggy.

RESONANCE RESEARCH CORPORATION has tentatively scheduled its annual Open House for Saturday, October 29 at their factory north of Baraboo, according to owner D.C. Cox. Among other items, RRC manufactures industrial grade, world class Tesla coils - large ones, indeed. More details next month. Last year, a number of Radio Amateurs from around the state dropped in and enjoyed the show. Will we see you there this year? More info, including a map, next month.

YES, WE WERE LATE with our last issue - production problems cropped up in several areas. Sorry about that.

SCOT HERRICK, NB9C, is on the mend after his fall during Field Day teardown. Scot, who is president of the Four Lakes ARC in Madison, expects to be hospitalized for another two months or so. Your editor visited him recently, and found him in good spirits. He appreciates the cards and letters he's received. If you haven't sent him a get-well card, you may send one to him at Room 387N, Bed 1, Madison General Hospital, 202 S. Park St., Madison, WI 53715.

KEN EBNETER, K9EN, of Portage, WI, is a candidate for Vice-Director of the Central Division of the American Radio Relay League. ARRL members in the division will receive ballots probably in September. It is unknown which other candidates will be on the ballot.

Room SD-508
Washington, D.C. 20510
Tel: (202) 224-0427
Attn: Ralph B. Everett

Sen. Daniel K. Inouye (D-HI)
Chairman of Communications Subcommittee
Room SH-227
Washington, D.C. 20510
Tel: (202) 224-9340
Attn: Tom Cohen

(From The ARRL Letter, published by the American Relay League, Inc.)

Badger State Smoke Signals urges you to help save 220-222 MHz by contacting these senators and representatives as requested by Dave Sumner, K1ZZ. In addition, contacting Wisconsin senators William Proxmire and Bob Kasten, and your congressman in the House of Representatives, would be helpful. And please, do it NOW!

THE LA CROSSE 16/76 REPEATER: HISTORY/UPDATE

I have been asked about the history of the La Crosse two meter 146.16 input/-146.76 output repeater many times, so I thought I would write a brief background on how it came into being.

Back in the late 1960s, Ray Snider, W9MNG, and yours truly got involved with the Navy MARS program. This was during the Viet Nam war era. We were doing message handling as a service from vets on R&R. About this time, the Wisconsin Navy MARS group decided to activate a two meter repeater system, with low band links between the various local repeaters. With the help of Jack McLeland, W9ATK, Ken Ebner, K9EN (then K9GSC), and Jim Romelfanger, K9ZZ (then K9PKQ), and a few others, we were able to obtain a surplus VRC-19 two meter station.

Input to the local repeaters was on 150.09 MHz, with output on 148.41 MHz.

With the help of those named above, we put the VRC-19 on the air, and, through a low band link setup, we were able to talk from La Crosse to Milwaukee, and later down to the Great Lakes Naval Training Center near Chicago. This began the first local two meter repeater system in this area.

After the Viet Nam War, there was a surge in Amateur repeater stations across the nation. Since there was little action on the MARS frequency, W9MNG and I decided to switch the repeater over to the Amateur two meter band. At about this time, we also upgraded the rig to a rebuilt Motorola. We proceeded to apply to the FCC, and received the repeater call sign WR9-AEQ.

It took a bit to get our first controller put together, but finally we succeeded. So, the 16/76 machine finally got on the air, with the help of the Motorola BRA-140 (?) tube-type equipment.

We have gone through a progression of rigs, and now are using a modified Motorola MOTRAN. The work on this rig is credited to Van Elston, WA9FIO. We also are using a 6 db gain antenna at the 180-foot level. The equipment is in the local Dairyland Power building, and tower space is leased from them.

The repeater is supported by the La Crosse Repeater Association, which is just a handful of faithful contributors. Nearly all of this has been done with out-of-the-pocket contributions and used equipment. We are proud of the quality of our signal and of the system, which has a range of about a 50 mile radius. This is what we originally designed the range to be, as a point between the Twin Cities and the Baraboo-Madison area. We welcome all travellers and visitors in the area to use it and to enjoy the local people who use it. Use it and have fun!

This was written using my failing memory, and I may have missed some names and dates, for which I can only ask your forgiveness.

- Bruce Bjerstedt, K9CUT
335 So. 22nd St., La Crosse WI 54601



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Eau Claire Amateur Radio Club

Bob Fallis, W9BAR,
Secretary
1851 McKinley Road
Eau Claire, WI 54703

The next meeting of the Eau Claire Amateur Radio Club will be held Tuesday evening, September 13th, at 7:30 p.m. in the Parks and Recreation Building, 1300 First Avenue.

MINUTES OF THE AUGUST 9TH MEETING

The meeting was called to order by our president, Jerry Marx, NG9A, at 7:40 p.m. Eighteen members and one visitor were present. The minutes of the July meeting were read and approved. There was no financial report, the treasurer being absent.

REPORTS

The Sky-Warn Net has been activated several times this past month because of the severe weather warnings. The call-up list has been used just once, and worked very well. At all other times there have been enough volunteers without using the list. If you would like to have your name added to the list, call NG9A. We have never had too many spotters.

Andy, KA9HWN, reported on the progress at the trailer. They are still meeting Tuesday nights. Everyone is invited to assist.

There were several individual reports on Field Day activities. The club did not sponsor an event.

The July Hamfest was a financial success.

The Club picnic is August 21st at Carson Park. The affair starts at noon. We will eat at approximately 1 p.m. All Amateurs are invited.

Respectfully submitted:

Bob Fallis, W9BAR, Secretary



RANDOM SHOTS

Disk Jockey Clyde Coffee, W9HSY, Madison, gets around the area, doing various gigs for dances, and sometimes introducing recording artists at live shows. That's what he did at this gig, introducing veteran rock 'n' rollers Jan and Dean, when they did a live show at Noah's Ark Water Park in Wisconsin Dells this July. Left to right are Jan, Dean, Clyde, and Jack Waterman, one of the park's owners. Jan and Dean had many hits in the early '60s, including "Little Old Lady from Pasadena" and "Dead Man's Curve." K9ZZ photo.



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IF YOUR CLUB OR GROUP SPONSORS A HAMFEST OR SWAPFEST, special ad rates are available here in BSSS.

Contact Ken Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901, or call Ken at 608/742-3560.

KA9WDE wins Maxim Award

Stacey L. Garner, KA9WDE, of Harshaw, Wisconsin, was chosen as the winner of the 1987 Hiram Percy Maxim Award by the Board of Directors of the American Radio Relay League on July 20 and 21.

The award is conferred annually upon a deserving young Amateur who best promotes and advances Amateur Radio.

Stacey is the daughter of Greg Garner, KA9VII; her mother Patty holds a Novice class license, her brother David is in a Novice class, and the Garners' oldest son and daughter-in-law are in a Novice class in Nebraska.

Stacey holds a Technician class license, and is 13 years old. She was first licensed as a Novice when she was 12. She is a member of the Tomahawk Repeater Association, Rhinelander Amateur Radio Club, and the American Radio Relay League.

She is a student at James H. Williams Junior High School in Rhinelander, where she gives presentations about Amateur Radio to her classmates and teachers.

Stacey supervised and operated the Novice station on Field Day last year at the operating site of the Rhinelander Amateur Radio Club, and operated more than nine hours continuously. She enjoys CW, and usually spends at least an hour every evening between 7 and 8 p.m. on 3725 KHz or on 40 or 10 meters. She also likes 10 meter phone.

She helps with instructing Novice classes in Tomahawk and Rhinelander; those classes produced 10 new Novices in 1987, and nine so far this year. She assists in preparation of class materials with her computer. Some of the successful graduates of her instruction work are seventh grade students - and even one teacher!

Stacey installs and fixes various antennas, and climbs the Garners' 60-foot tower, with dad Greg directing her to ensure her safety. She has constructed a solid-state code practice oscillator for her younger brother David.

She is active on the Student Council at her school, and is a member of the Forensic Club.

In winning the 1987 HPM Award, Stacey will receive a trip to an ARRL hamfest or convention, where the award will be officially presented. She also will receive a check for \$1000.00.

Congratulations, Stacey!

The winner of the 1986 HPM Award, named in 1987, was also a Wisconsinite - Scott L. Young, N9FZS, of Colby, who is now a student at the Milwaukee School of Engineering.

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STATE GOVERNMENT LIAISON NEEDED

State Government Liaison is an ARRL Section Level appointment. The Wisconsin SGL position is vacant, since John Ackerman, AG9G, has left the state to work elsewhere. Wisconsin Section Manager Richard R. Regent, K9GDF, is seeking a qualified individual to fill the position.

The SGL is an Amateur Radio operator who is cognizant of state legislative proposals in the normal course of events, and who can watch for those proposals having the potential to affect Amateur Radio without creating a conflict of interest.

The SGL collects and promulgates information on state ordinances affecting Amateur Radio and works (with the assistance of other ARRL members) toward assuring that the ordinances work to the mutual benefit of society and the Amateur Radio Service.

The SGL guides, encourages and supports ARRL members in representing the interests of the Amateur Radio Service at all levels. Accordingly, the SGL cooperates closely with other section-level officials, particularly the Section Emergency Coordinator and the Public Information Officer.

The SGL must be an ARRL Full member, and hold a Novice class or higher license. The SGL reports to the Section Manager (and keeps ARRL Hq. advised) of all appropriate activities and developments involving the interface of Amateur Radio and government regulatory matters, particularly those which have policy implications.

When monitoring state legislative dockets, SGLs should watch for key words that could lead to potential items affecting Amateur Radio. Antennas (dish, microwave, towers, structures, satellite, television, lighting), mobile radio, radio receivers, radio interference, television interference, scanners, license plates, cable television, ham radio, headphones in automobiles, lightning protection, antenna radiation, biological effects of radio signals are a few examples of what to look for.

The job is clearly an important and challenging one. Heading off potentially dangerous state government actions is critically important to all amateurs!

If you are qualified and are willing to fill this vital position, please contact Wisconsin Section Manager Richard R. Regent, K9GDF, 5003 South 26th Street, Milwaukee, WI 53221.

SHEBOYGAN COUNTY AMATEUR RADIO CLUB ELECTS OFFICERS

New Sheboygan County ARC officers, elected in July, are President Lyle Ten Pas, WB9QCY; Vice President Al Martel, NF9R; Secretary Don Meyer, KD9PE; and Treasurer James Daniels, WA9SNU. SCARC Board members are Tom Witt, KA9VIA, and Francis Goetl, Jr., KA9USW.

Badger State Smoke Signals urges you to contact your Congressman and Senators about the 220-222 MHz reallocation **NOW!**

FOUNDATION FOR AMATEUR RADIO NAMES SCHOLARSHIP WINNERS

The Foundation for Amateur Radio has announced the 1988 winners of the 28 scholarships it administers; three of the winners are Wisconsin Amateurs.

The winner of a \$700 Radio Corporation of America Scholarship is Martin J. Van Der Burgt, KA9MSR, Kaukauna. Winning two Wisconsin-only \$700 Emil Kumer-shak (W9WYF) Scholarships are Douglas K. Kleeman, KA9LWN, Shawano, and Scott L. Young, N9FZS, Colby; these are funded by the West Allis Radio Amateur Club.

The Foundation for Amateur Radio is a non-profit organization, and is devoted exclusively to the scientific, literary and educational pursuits that advance the purposes of the Amateur Radio Service.

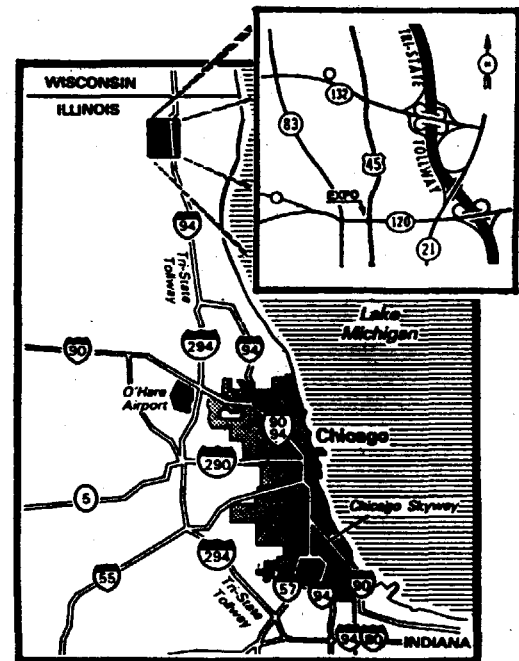
The 28 scholarships offered were open to all Radio Amateurs meeting the qualifications and residence requirements of the various sponsors. Announcement of the 1989 awards will appear in the April or May 1989 issues of the major Amateur Radio publications, and in Badger State Smoke Signals.

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How the Test was Won

By Steve Dubberstein, NA9D
3511 Campbell Street
Rolling Meadows, IL 60008

(Editor's Note: The author won the 1988 Wisconsin QSO Party in the single operator, fixed station class. Here's how he did it.)

The most fun packed into seven hours all year long. That's my definition of the Wisconsin QSO Party. Non-stop action, phone and CW. Unbelievable activity, especially for a state the size of Wisconsin.

The planning for the March event this year started with acquiring the right equipment. After several years of hauling around multiple Drake lines and KW's, it was time to switch to something more reliable and easy to move. Thus, this year's QSO party was done with a TS-930 and an Alpha 374. This combo also had the advantage of switching bands quickly, a QSO party necessity. Pre-tuned dipoles for 40 and 80 and a vertical for 20 rounded out the portable QSO party station.

The week before the QSO party had arrived, and I still did not know exactly where I would do it from. I had several spots in mind, but not confirmed. A business trip to Los Angeles the week before didn't help planning any.

I return on Thursday before the contest to find out Neenah is in the state basketball tournament. Being a Neenah native and die-hard fan, it's time to head to Madison. In goes all the QSO party gear and off to Madison for the quarter-final and semi-final games. At this point, it is Friday night, and time to figure out where I would do the contest from!

I decide to try it from my parents' cabin on Lake Lucerne in Forest county. This turns the whole event into sort of a field day, as the cabin had no running water and only a stove for heat. It did have 220 VAC, though. The rare county should not hurt me too much, either. So I stop in Neenah on the way up to pick up keys, food, and water to last through the contest.

I arrive on Saturday afternoon. Time to set up, pronto. Lots of string was used to get the dipoles up on 40 and 80, but I cannot get them higher than 20 feet. The vertical goes where the TV antenna was. After some wiring for 220V for the Alpha, the station is ready to go. It's late Saturday night, and a few QSOs in the Virginia QSO Party confirm everything works. It is VERY quiet, and very dark. Hope none of the bears, whose tracks were in the snow, decide to pay a visit.

Sunday morning, day of the contest. I fire up the gear at 10 or so, everything seems to be working perfectly. What a change from the previous years. At 11:00 or so I run into KB9S, and a little after

that W9XT. Seems as if every year the heavyweights are on an hour or so in advance. About 11:45 75 starts to fill. Time to claim a spot for that first big run on 75.

And the contest starts as usual - like a madhouse. 13 Q's by 12:03. This is what makes the trip worth it. I work W9ZR, last year's winner. Never worked him after that, though. Must not have finished. It is amazing how the same people come back year after year for the contest. Sometimes I only need one or two letters of the call to know exactly who it is.

I jump to 40 phone. Great, 40 is short. This will guarantee in-state Q's on that band. By 12:13 I have 33 QSOs in the log. I jump to 40 CW, work W9WI/M. Doug always covers lots of counties on CW, gotta make sure to catch him in as many as possible.

The first hour yields 105 contacts, down a bit from other years. My super wimpy signal on 20 is the blame, I say. Especially to the west, where a giant bluff blocks the signal. This ended up hurting the west coast multipliers in the end. I run into Mike, AC9C. He didn't know where he was going to do the contest from either, and he ended up doing it from Illinois. Too bad, I miss the competition. And the chance to beat him after so many close finishes.

The rate keeps up, and I work NØBMP. The kilowatt mobile is plenty loud. Then there is my high school buddy, Kent, NI9U. He has to have the weakest mobile signal on the planet, but managed to work him in 6 counties. Where are the northern counties? Seems as if no mobiles hit the northern part of the state this year. That will definitely hurt multipliers.

As the contest gets near the end, I say to myself I need more CW QSOs. As CW contacts are worth twice as much as phone, a proper balance of CW to phone is necessary to win. The winning balance seems to be about two phone Q's for every CW QSO. So I head to 80 a little early to up the CW count. No equipment failures and it is almost the end of the contest, a first for me in the QSO party.

The contest ends with a QSO with Howie, K9KM. Gary, W9XT, then gives me a call, and we move to phone to compare scores. Gary scares me at first, as he has more contacts than me, but it turns out I have a higher QSO point total due to more CW QSOs. Our multiplier totals are about the same, so looks as if I edged out Gary. WB9SBD jumps in and calls in an excellent score, very close to mine. Turns out it was closer than I thought as he was only 30 points behind me in the results, less than one QSO!

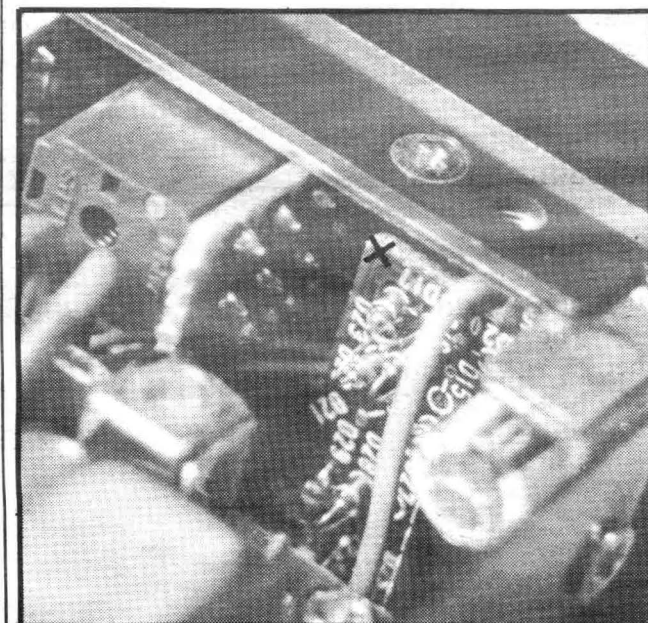
The after-dupes total was 372 phone QSOs, 169 CW for a total of 541 contacts. Multipliers were way down, only 93 this year. But it was enough for a first place finish and a real fine looking plaque from the West Allis club. Too close for comfort, though - just once I'd like to do the Wisconsin QSO Party from a REAL station!

LIMITING FREQUENCY COVERAGE IN THE ICOM IC-3200A

In recent years, I have observed a trend among some radio equipment manufacturers to build transceivers (VHF and UHF in particular) which are capable of transmitting outside the U.S. amateur bands. Although this extra frequency coverage may be of interest to MARS or CAP operators, it could result in a "pink ticket" from the FCC if you transmit outside the amateur band without proper authorization.

Limiting the frequency coverage of some synthesized transceivers can easily be accomplished by changing the configuration of a diode matrix. Restricting the popular Icom IC-3200A to 144-148 MHz without affecting the UHF frequency coverage can be done by disconnecting one diode in a matrix. Here is the step by step procedure:

1. Disconnect the power cord from the transceiver.
2. Remove the bottom cover (4 screws).
3. Unplug the speaker from the main PC board.



4. Locate D17 on the PC board behind the front panel. D17 is the diode nearest the squelch control, and is identified by a label on the component side of the PC board. D17's location is indicated by an "X" in the photo.
5. Carefully cut the lead which goes from the circuit board to the top of diode D17. Make sure the wire you cut doesn't cause any short circuits.
6. Reconnect the speaker wires to the main PC board.
7. Replace the bottom cover and install the 4 screws that hold it in place.
8. Reconnect the power cord and antenna.
9. Reset the CPU by holding in the function button and turning the transceiver on.

(Please turn to page 11)

ARRL Board Meets

The ARRL Board of Directors held its second 1988 meeting in Hartford, Connecticut, on July 21 and 22.

President Price reported on the tireless and many faceted campaign to retain the entire 220 to 225 MHz band.

A 90 day extension will be sought for filing comments in the NPRM, PR Docket 88-139, the Part 97 rewrite.

Counsel was directed to petition the FCC for amendment of the rules to substitute the sub-bands 144.275 to 144.300 MHz, 220.275 to 220.300 MHz and 432.3 to 432.4 MHz for automatic beacon operation. Further, the ARRL band plans for automatic beacon operation for higher frequency bands were amended. Guidelines for VHF-UHF spectrum management were adopted for recommended use by the packet radio community.

In a move to assist in settling repeater coordination disputes, the League will offer its good services to arrange for binding arbitration through the American Arbitration Association. Further, the Board affirmed its agreement with the specific terms of the FCC Report and Order in PR Docket 85-22 that there can only be one recognized frequency coordinator for a given band and geographical area. Accordingly, frequency coordinators in areas not in dispute are acknowledged by virtue of the recognition accorded them by the amateur community. Further, the ARRL will seek an FCC reaffirmation of the principles set forth in Docket 85-22 in support of frequency coordination efforts.

The Board endorsed an affinity credit card program to be made available to interested League members, with half the derived funds to be allocated to the Fund for Defense of Amateur Frequencies.

In the operating arena, the Board moved to support efforts to include a competitive amateur radio activity in the 1990 Goodwill Games in Seattle, and established the principle of an Amateur Awareness Day to promote amateur radio display stations in public places. Further, the utility of the Simulated Emergency Test and ways to encourage Novice and Technician use of CW will be studied.

The Board further established the goal of doubling the number of radio clubs in schools by the end of 1991. The feasibility of clubs providing classes on public broadcast and cable TV will be studied.

The following special recognition awards for the year 1987 were conferred: Technical Excellence award to W7XC. Instructor of the Year award to K7NUL. Hiram Percy Maxim award to KA9WDE. Professional Teacher of the Year award to WB2JKJ and WB2MGP. International Humanitarian award to WB2GQW.

The feasibility of instituting a dedicated 800 number for member orders to HQ will be studied.

Developing an entry level guide for Emergency Coordinators with self-test was approved.

The 1990 ARRL National Convention will be held in Kansas City, Missouri, June 8 through 10, under the auspices of the PHD ARA.

Minutes of the meeting will be in September QST. The next meeting of the Board is scheduled for Hartford, Connecticut, on January 20 and 21, 1989.

(ARRL Bulletin 76, July 23, 1988)

LIMITING FREQUENCY COVERAGE IN THE ICOM IC-3200A

(Continued from page 10)

10. Release the function button, then press and release it again.
11. Verify the reduced VHF coverage by using the MHz up and MHz down switches and/or by rotating the tuning control.

This completes the modification.

NOTE: The contents of the memories will be lost when the CPU is reset. However, the memories can easily be reprogrammed by following the procedure described in the IC-3200A instruction manual.

Also note that this modification

may affect the IC3200-A warranty.

I hope readers who are not interested in MARS or CAP operation will find this modification useful in terms of eliminating the possibility of transmitting outside the U.S. amateur band.

References:

Icom IC3200-A Instruction Manual, pages 17, 18 and 26.

Icom IC3200-A/E Service Manual, page 3.5 and 7.4.

- John W. Frank, WB9TQG
P.O. Box 5113
Madison, WI 53705

DUE TO SPACE LIMITATIONS, several articles have been postponed until the October issue of BSSS; this due to a number of large ads, the 220-222 MHz reallocation story, and being restricted to 16 pages for this issue. In October, you'll read about Wisconsin's Amateur Radio SuperStation (24 towers!), written and photographed by Gene Santoski, K9UTQ; Amateur Radio and CB on Truk in Micronesia, written by Nancy Vander Velde, AA6EA, and much, much more.

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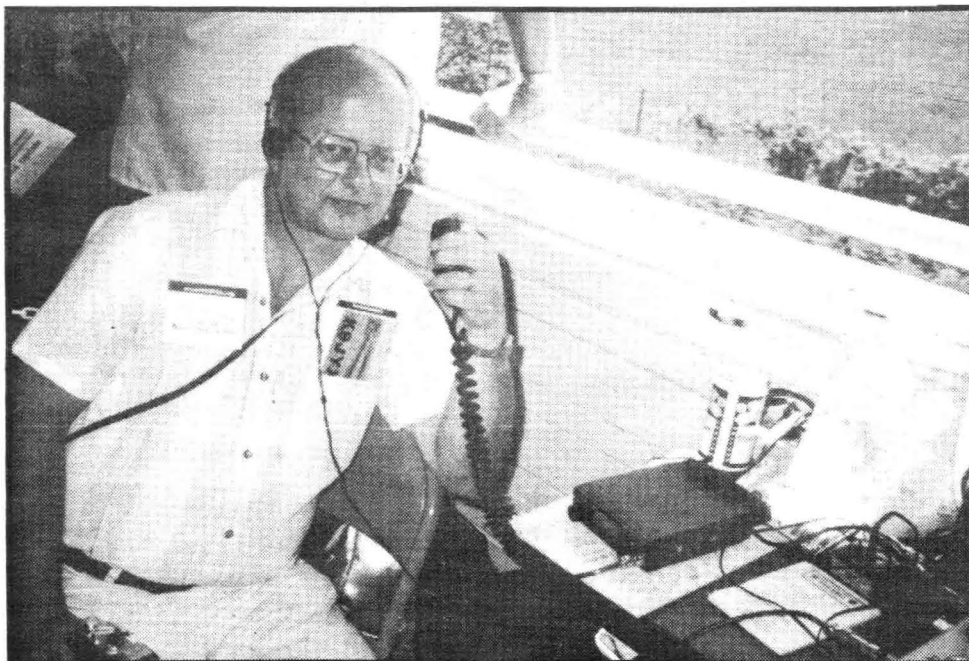
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on page 5.



HISTORY REPEATS ITSELF

Amateur Radio has been aboard the Great Circus Train since it began hauling circus wagons from Baraboo to Milwaukee in the early 1960s, and one of the first Amateurs to help provide communications was Don Evenson, K9JYX. Don was aboard this year, about 25 years after the first operation. Don had some interesting experiences those years, like meeting Ted Mack, and draining beer out of a radio. Don, here taking a turn at the radio on the train, lives with wife Bonnie in Baraboo.

MILWAUKEE TO HOST 10-10 NET CONVENTION IN 1989

The Ten-Ten International Net will hold its 1989 convention at the Red Carpet Hotel on Howell Avenue in Milwaukee on August 11-13. Scheduled guests include Dave Sumner, K1-ZZ (ARRL General Manager); Barry Goldwater, K7UGA; former astronaut Tony England, WØORE; Wisconsin ARRL Section Manager Richard Regent, K9GDF, and others. The convention will include an indoor flea market, forums, license exams and a banquet. Additional speakers and entertainers are being sought. More information is available from Joe Williams, WA9TSG, P.O. Box 93181, Milwaukee, WI 53203, phone 414/263-3618. (Info via K9GDF)

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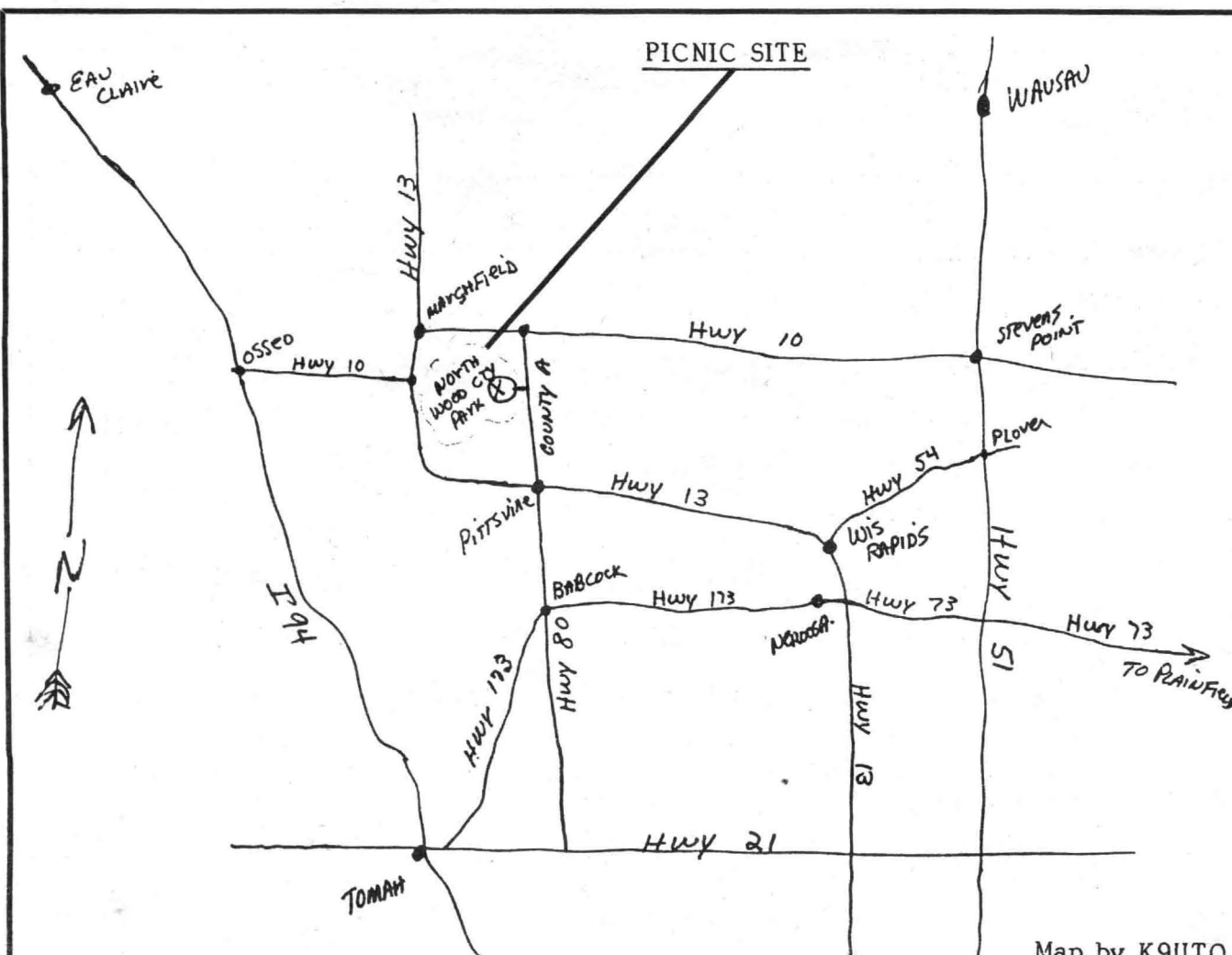
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Map by K9UTQ

1988 WNA Picnic

The 1988 Wisconsin Nets Association
Picnic will be held

Saturday, September 10, 1988

at

North Wood County Park

Picnic at 12:00

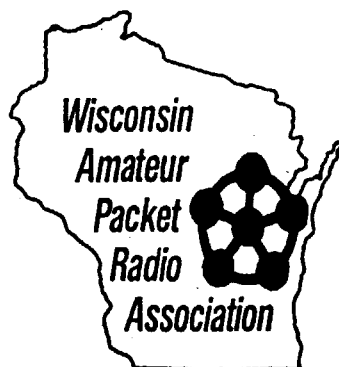
WNA Delegates Meeting at 1:00 p.m.

Talkin on 146.79 and 146.82

Those traveling Highway 13 from the south into Wisconsin Rapids should turn left onto Hwy 73 (by the drive-in theatre) and take Hwy 73 to Nekoosa, as Hwy 13 from Hwy 73 to Wisconsin Rapids is closed for construction.

Then, take Hwy 173 from Nekoosa to Babcock, then north on Hwy 80 to Pittsville. Cross Hwy 13 onto County A to the park.

This will save a lot of confusion in the Wisconsin Rapids area.



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

c/o CARL SCHUMACHER, N9BYS
7740 EVERGREEN TERRACE
BURLINGTON, WI 53106

Steve Loeffler, WB9ZRE, Editor, 123 W. Oshkosh St., Ripon, WI 54971

WAPR BOARD MEETING MINUTES August 13, 1988

Minutes of the meeting of the Board of the Wisconsin Amateur Packet Radio Association held on this date. The meeting was called to order at 10:16 am by Chairman Dan Bolander, WB9TYT. All board members and two regular members were present.

A treasurer's report was given. Dan then asked for reports from each of the board members. Dan asked each officer and board member to submit reports to the secretary by the 5th of each month so that the secretary can submit a synopsis of WAPR activities to Badger State Smoke Signals by the 10th of the month deadline.

Incorporating WAPR was discussed. No advantage was seen and the subject was tabled.

WAPR acquisition and distribution of equipment necessary to help establish network elements in areas needing them was extensively discussed. A motion was made by N9BYS that the board propose to the membership that WAPR plan and establish reliable network links between Chicago, Milwaukee and Minneapolis, with the goal of branching from this path to all parts of Wisconsin. The motion was seconded by WB9LST and passed unanimously.

A motion was made by WB9LST that WAPR hold a regular meeting at the KMRA swapfest in Waukesha (October). The motion was seconded and passed. Rudy, KB9OK will make the arrangements with the KMRA.

The meeting was adjourned at 12:26 pm.
Dave Knaus, WA9POV, Secretary

MFJ TNC - KENWOOD 940/440

For those of you attempting to use the MFJ-

1270, 1270B, 1274 or the 1278 TNC along with the Kenwood TS-440 you will find that there is not sufficient audio to drive the rig using the ACC 2 jack even with R76 on the TNC full clockwise.

To solve this dilemma, replace R57 (550 ohm) with a 2K ohm or greater resistor. You might have to try higher values if you wish to balance the mike gain with a microphone in place.

The tuning indicator on the MFJ-1278 is the best that I have seen so far, only one LED out of 20 to watch and when properly tuned the center LED is lit. Each LED right or left indicates 10 cycles, so determining where a station is relative to the receiver frequency is very simple.

I also find that the HF modem is superior to the AEA PM-1 that I just tired. If anyone has other mods for the MFJ-1278 please let me know. I haven't had a chance to try SSTV or FAX yet since I cannot locate a source for the starter kit (yet).

Bill - VE4UB (SYSOP) @ VE4BBS

A 4800 BAUD MODEM FOR THE TAPR TNC

The Hamilton Area Packet Network has introduced a plug-in 4800 baud modem card for the TAPR TNCs and clones. The daughter board plugs into the external modem connector.

The size is 9.5 x 7 cm (3.75 x 2.75 inches) which normally allows it to be mounted inside the TNC.

The modem allows 4800 BPS operation by directly interfacing to the discriminator and modulator of a regular VHF or UHF transceiver.

The modulation is direct FM biphase modulation and does not require any more bandwidth than regular 1200 baud operation.

The modem contains a multiplexer that easily switches between the 4800 HAPN-T and the 1200 baud modem on the TNC mother board.

Instructions are included for assembling and installation on to the TAPR TNC-1 and TNC-2 (and true clones, such as MFJ. The TNC's circuit board must have a 20-pin header strip on it.)

HAPN has printed circuit boards and parts kits available for the HAPN-T.

Jack Botner - VE3LNY

1708 35 Wynford Heights Court

Don Mills, Toronto, Canada M3C 1L1

AMATEUR RADIO TELEPHONE BBS

I have placed a BBS system online that is mainly oriented towards the amateur community (but there is other stuff online).

As of now I have not attempted to promote

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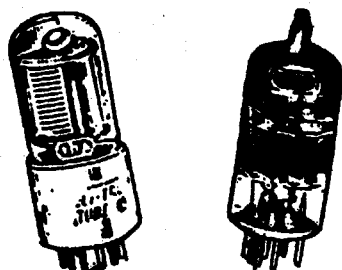
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this system any place except in the amateur channels (PACKET, USENET, & word of mouth), and will continue under this policy, as I hope to keep it oriented towards Amateur Radio.

The various software for UP/DOWNload is available via telephone dialup and Packet TCP/IP, and through user support I hope to keep the latest and greatest ham software online.

Below is the information that is needed in order to access the BBS via Telephone -or- TCP/IP, please pass it around to as many ham's as possible.

System Name: WB3FFV
Login: BBS
Baud Rates: 1200, 2400, 9600, 19200
9600 & 19200 with Telebit TB modem
Number: (301)-335-1955
Times: 24hrs / 365 days
(except for routine maintenance)
Software: XBBS (UNIX/Xenix Multiuser BBS)
IP Address: 44.60.0.1 {wb3ffv.md.ampr.org}
[for TCP/IP access on 145.550]
Misc Info: Machine is an 80386 computer
operating UNIX V.3 features 190 meg
of online storage. Most transfer
protocols are available!!

I attempt to keep the latest and greatest HAM software online, and encourage all to upload anything new that they come up with, as it is of benefit to all.

Here is a sample of a couple pieces of software that is available for DOWNLOAD:

KA9Q TCP/IP Software for PC (version 871225.30)
KA9Q TCP/IP for the Atari-ST, MAC, & Amiga
WA7MBL BBS for the PC (Versions 3.31 & 4.31)
Several MORSE CODE Tutors.
TheNet software by NORD<>LINK (Version 1.01)
Modifications for many HAM Rigs and Scanners

There is much more available on the BBS, and I don't want to waste a lot of PACKET BBS space trying to list it all, so if you are interested give it a call and see for yourself !!!

UUCP/SMTP: howardl@wb3ffv Howard Leadmon
PACKET : WB3FFV @ W3ITM Fast Computer Service
IP Address: 44.60.0.1 P.O. Box 171
Telephone: (301)-335-2206 Chase, MD 21027-0171

A LOOK AT LANS AND WANS

Once again I would like to point out that using the term "LAN" (local area network) when referring to an amateur packet radio channel in a town or city area is incorrect. In the non-amateur networking world, the term is universally understood to mean a network covering a building or, at most, a collection of closely located

buildings (e.g., a corporate park or college campus).

The proper term for a network, radio or otherwise, that covers a town or city-sized area is "MAN" (metropolitan area network).

We really should use the correct terminology so we don't confuse the non-amateur networking people when we (try to) impress them with the work we're doing. Phil R. Karn

DON'T GIVE ME ANY STATIC!

Something that most of us forget to give any real consideration to is STATIC ELECTRICITY when it comes to caring of our PC's. Static Electricity is the leading cause of computer malfunctions and downtime. It can wipe out or alter stored data, freeze or erase your screen, and even damage delicate circuitry.

Simply walking across the carpet or moving in your chair generates more than enough static to cause these types of problems. Most computer supply firms sell anti-static floor mats, table-top mats, and keyboard strips.

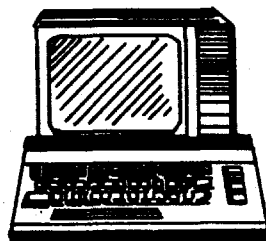
Prices range from a few dollars for the keyboard strips, to about \$150 for a fully grounded floor mat.

Another problem related to static is the well known POWER SURGE. Surges and spikes are frequently caused by electrical storms, fluorescent lighting, office equipment such as copiers, air conditioners, or elevators. These villains cause over 50% of all computer data errors, reduce equipment life, or damage internal circuitry. Studies by IBM researchers show that a typical computer is exposed to an average of 113 surges and spikes each month.

A good surge protector will shield your equipment from these kinds of hazards. As a matter of fact, many insurance companies won't insure a computer that isn't equipped with a surge protector.

Surge protectors run from about \$10.00 on up, and is money well worth the investment. If you don't have one, you had better give it some consideration.

'Pirated' from: "THE PITS" - The un-official newsletter of the SEWUGS (South East Wisconsin Users Group System).



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FOR SALE: Kenwood Twins, R599D - T599D, Late production with spare tubes and transistors. \$300.00. Yaesu FT-102 transceiver with hand mic and Manual, \$500. Harv Hamer, K9YHO, 1109 12th St., Apt. 6, Baraboo, WI 53913. (608) 356-3295.

WAPR MEMBERSHIP APPLICATION

There is an application blank for WAPR membership on page 13. You can use this for new or renewal memberships. Please send it direct to WAPR if you wish to renew, and not to BSSS as this will cause us extra paper work and expense.

On your mailing label, the 4 digit number in the middle of the top line is the expiration date for your BSSS subscription. Your renewal of your WAPR membership will include a one year renewal of your subscription. The call sign (or number) on the left end of the top line is our lookup key, so please include this along with your new or correct call if it is no longer current. The number on the right is simply an internal number associated with the current mailing and will change from month to month.

Q: Mailman, "Is this QSL card your? The name is obliterated."

A: Ham, "It's not mine, my name is Jones".

Q: How do you prevent a 2,00 pound elephant from charging?

A: Turn off his generator.

Q: What do you get when you cross a jellyfish with an eel? --

A: Current Jelly

The above Q and A from W0CCT via ARNS Bulletin.

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Yellow Thunder Amateur Radio Club

**K9ODK
WB9FDZ**

The August 11, 1988 meeting of the YTARC was called to order by the president, Steve Schwoegler, at 7:50 p.m. In attendance were:

Harry Westlund	K9EHJ	Baraboo
Duane Grotophorst	KA9HKL	Loganville
Art Kleefisch	W9WSS	Baraboo
Harry Mayland	K9FFT	Baraboo
Jim Decker	WB9UQT	Baraboo
Steve R. Schwoegler	WB9RNL	Wisconsin Dells

The minutes of the previous meeting were approved as published in the B.S.S.S.

The treasurer's report was given as:

Operating balance: \$216.89

Current balance: \$279.16

The secretary then handed out the latest A.R.R.L. Field Bulletin on the Simulated Emergency Test.

There was a lengthy open discussion on ways to publicize the club in an effort to possibly increase membership. Many suggestions were put forth and the president then suggested we shelf the matter till next meeting and everyone give serious consideration to ideas presented.

Special Note: To you members who do not attend too many meetings - Why not drop me a note or phone call with your ideas on the above matter. I'll be only too happy to present your suggestions at the next meeting on your behalf.

The chair then mentioned the fact that we should begin planning the next Novice class in the very near future.

For the next meeting's program, we are trying to secure a slide and talk presentation about the NOAA weather radio station in Madison.

The meeting adjourned at 9:30 p.m.

Respectfully submitted:

Harry Westlund, Secretary

WNA - UNIVERSAL TRAFFIC QUERIES

(continued from page 4)

operator gets a count of 1 for "originating" a message, and another count of 1 for "sending" the message on the air. The important thing to remember here is that an "Origination" involves contact with the public.

Members of your family or relatives can qualify as originators, as do your co-workers, neighbors and friends. Occasional originations via your station can keep Amateur Radio face-to-face with the general public at the same time it helps keep those interested in traffic handling occupied and happy. A moderate amount of traffic flowing through our net system will keep us all in practice and ready to handle really important traffic when or if the occasion requires, meanwhile performing a public service during normal times. These are the very objectives of Amateur Radio traffic handling.

JUST WHAT IS MEANT BY A "SERVICE MESSAGE"?

Well, to put it simply, if a message cannot be delivered to the addressee for whatever reason, the station attempting to deliver the message should service the originating station so that he will know his message was not delivered. Stations NEVER cancel messages; the most they do is file them as undeliverable. Only the originating station can cancel a message.

HOW DO YOU SERVICE A MESSAGE?

Very simple. First of all, every message should contain servicing data, and should be kept on file somewhere in your station for not less than 1 year. The servicing data on an ORIGINATED message should indicate the name and address of the sender. A SENT message should show the call of the station to which it was sent, along with the date and time. A RECEIVED message should show the call if the station from which received, along with the date and time. A DELIVERED message should show the method of attempted delivery, along with the date and time. These data are essential in case any question arises later regarding the message.

A SERVICE message is a message regarding the handling of another message. It is amateur-to-amateur only and usually relates to delivery problems. But it can also relate to other discrepancies in the message itself or in its handling. The form and procedure are exactly like that of any other message, except that some amateurs like to precede the precedence with the proword "SERVICE" (SVC on CW).

There is no excuse for a service message with a long text. Stick to the essential basic facts. ARL SIXTY SEVEN is a service message text that can be used.

By the way, a service message carries the same precedence as the message being serviced. Also, the text should refer to the number of the message being serviced. Example:

REFERENCE YOUR NUMBER 15 ROUTINE.
UNDELIVERABLE BECAUSE ADDRESSEE HAS MOVED AND LEFT
NO FORWARDING ADDRESS XRAY PLEASE ADVISE XRAY 73

The above would be a typical text of a service message.

WHAT PROCEDURE IS USED TO DELIVER A MESSAGE?

The most important feature of handling formal written traffic seems to receive the least attention. Books and magazines address themselves to the many problems of handling traffic: correct word count, right and wrong way to write a message etc. Unfortunately, all of these things go for naught if message delivery is botched up or, worse yet, the traffic is not delivered!!

Let's assume that you're sitting in front of your rig with a message hot off the net, ready for delivery. Curb your first impulse to dash off to the telephone. Give some careful thought to your presentation to the addressee. The delivery of any message has a two-fold purpose: a recital of the actual message, and a subtle sales pitch for ham radio. NEVER forget the fact that many people will receive their first contact with Amateur Radio through your telephone call.

The correct telephone procedure should begin with an introduction and a statement concerning the purpose of your call. Example:

Good evening Mr. Jones. My name is Joe Smith. I am an amateur radio operator. As a public service amateurs handle messages for people, similar to Western Union, but free of charge. I have a message for you from George Wilson in Charlottesville, North Carolina"

This type of brief introduction accomplishes several things. The person on the other end of the phone has been given your name, the reason for your call, a brief sales pitch for Amateur Radio, and some idea of who the message is from.

After this introduction, proceed to read the text and signature. Don't forget to convert any ARL texts to plain language. No one will know what ARL FIFTY ARL SIXTY THREE means.

The final function of a correct delivery is the origination of a reply message. When you volunteer to do this, emphasize again that this service is free of charge. About 50 percent of the time, people will take you up on the offer. Explain that you will need the name, address and telephone number of the party for whom the message is intended.

In winding up your delivery conversation, leave the "customer" your name and phone number so that he or she may send additional messages in the future. Be certain to emphasize that this is a free public service provided by Radio Amateurs.

Using the above procedure will leave a good impression on the mind of the person you talked to. They will look upon Radio Amateurs as organized and efficient communicators.

That's it for this month. CU on the nets!

73, Gene, K9UTQ

JEFF SMITH
General Manager

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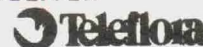
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